

Andreea AVRAMESCU

PERSONAL DETAILS

ADDRESS: Alliance Manchester Business School, University of Manchester,
Booth Street West, Manchester, M15 6PB

PHONE: 07451 824 900

E-MAIL: andreea.avramescu@postgrad.manchester.ac.uk

PROFILES [LinkedIn](#) [GitHub](#) – *code is private; available upon request*

RESEARCH PROFILE

I am an enthusiastic and fast-learning first-year postgraduate research student at The University of Manchester. My current research focuses on developing a flexible data-driven framework capable to support decision making of the development and delivery of precision medicine. The end application will be able to scale-up manufacturing and create a global supply chain for the commercialization of cell and gene therapies currently in clinical stages. Some of the main features of interest will be project decentralization, demand forecast, product optimization, and patient preferences.

SKILLS

- **Research Skills:** Machine Learning, AI, Bayesian Inference, Optimization (including Evolutionary Algorithms & Bayesian Optimization), Mathematical Programming, Regression (including Polynomial, Logistic, Linear, Ridge, Lasso, DiD, PCR, PLS, SVR, Poisson, Tobit), Data Modeling & Evaluation, Data Wrangling, Distributed Computing, Dimensionality Reduction, Forecasting, Big Data, Data Scraping, Structural Equation Modelling
- **Programming Languages:** R (including Rshiny, Stan, JAGS), Python (including NLTK & Bokeh), HTML
- **Other:** LaTeX, GitHub (including Learning Lab), Bitbucket, SPSS, Tableau, STATA, SAS, OpenRefine, Mplus, MongoDB, SQL, Apache Hive & Hadoop, Hugo framework, Power BI, SAP
- Experience working collaboratively with Microsoft Office and Excel Data Analysis Package, Google Analytics, Trello, Asana, Zoho

KEY ACHIEVEMENTS

- Manchester Enterprise Award and Manchester Leadership Gold Award
- Project Leader of the "Volunteer of the Year Project" award winner in 2017 & 2018
- Research Coordinator and Chair for Access All Areas, Students' Union
- Highly Commended "Volunteer of the Year Award"
- Award of Recognition for the project "Let's Bring Christmas to Their Home"
- Team Leader Student Ambassador at The University of Manchester
- First Aid European Certificate & The Certificate of Red Cross Nurse
- Peer Mentor and Student Coordinator for BASS
- IC3 Certiport Certificate: Key Applications, Living Online and Computing Fundamentals
- Volunteer on various projects focused on homelessness, human trafficking, children rights, disability, health awareness, access and widening participation.
- Excellent written and oral communication skills, excellent teamwork skills

EDUCATION

- 2019 - 2023 **University of Manchester**, England
PhD Business & Management
Research: Data-driven Optimization for Precision Medicine Development and Delivery
Supervisors: Dr. Richard Allmendinger & Dr. Manuel López-Ibáñez
- 2018 - 2019 **University of Manchester**, England
Master of Science
DATA SCIENCE
- 2015 - 2018 **University of Manchester**, England
Bachelor of Arts
CRIMINOLOGY & QUANTITATIVE METHODS

RELEVANT WORK EXPERIENCE / VOLUNTEERING

JAN. 2020 - PRESENT	University of Manchester , Manchester <i>Academic Tutor</i> <ul style="list-style-type: none">• Tutoring sixth form students that take part in the Manchester Access Programme• Supervising and grading academic research assignments that contribute to the overall University admission.
JUN. 2017 - SEP. 2017	University of Manchester & University of New South Wales , Manchester <i>Q-Step Intern for the Project "Supply Sources and Price Differentials by Domestic and International Cryptomarket Vendors"</i> <ul style="list-style-type: none">• This project focused on comparing large samples of price information by source and quality of drugs.• Two datasets were used, the Global Drug Survey and Cryptomarket dataset collected using a specifically created programme, DATACRYPTO.• Following the internship, I had the opportunity to contribute to GDS2018, by translating it for the first time in Romanian.
JUN. 2016 - JUN. 2018	Access All Areas , Manchester <i>Chair and Research Coordinator</i> <ul style="list-style-type: none">• Representing accessing and widening participation projects in the Union Senate, Activities Committee, Education Committee and Community Committee within The University of Manchester.• Coding and analysing feedback forms from schools and project leaders).• Creating a new feedback coding system.• Deploying a research investigation in respect to the level of poverty in Manchester and its impact on access higher education. Distinction: Making a Difference Award: Outstanding Contribution to Widening Participation

CERTIFICATES AND TRAINING

Coursera **Bayesian Statistics: From Concept to Data Analysis**
Final Grade: 92%
Bayesian Methods for Machine Learning
Final Grade: 96%

DataCamp **Python for Data Science Career Track**
Python Programmer Track

COST Action **Improving Applicability of Nature-Inspired Optimisation**

RESEARCH / DATA SCIENCE PROJECTS

Office for National Statistics	Capturing change of opinion in Twitter feeds Coordinators: Dr Jasmine Grimsley and Prof. Mark Elliot
MSc Dissertation	Measuring and Forecasting International Mobility Using Big Data and Bayesian Inference Coordinator: Dr Arkadiusz Wisniowski
BA Dissertation	To what extent do social factors influence drugs economy Coordinator: Dr Reka Solymosi
Q-Step Project	Drug Cryptomarkets: Capacity to Provide Demand and Supply Side Drug Monitoring Information Coordinators: Prof. Judith Aldridge and Dr. Monica Barratt